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[PDF] Non-invertible watermarking methods for **MPEG** encoded **audio** - all 9 versions »

L Ola, K Nahrstedt - Proceedings of the SPIE - historical.ncstrf.org

... going through an expensive three-step **decoding**-watermarking-encoding ... to embed watermark into **MPEG audio** streams. ... the scale factors of the **MPEGAudio** data, and ...

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A tutorial on **MPEG/audio** compression - all 39 versions »

D Pan, M Inc, IL Schaumburg - Multimedia, IEEE, 1995 - ieeexplore.ieee.org

... the basics of psychoacoustic modeling and the **methods** the algorithm ... of origin, any fully compliant **MPEG/audio** decoder will be able to **decode** any **MPEG** ...

Cited by 250 - Related Articles - Web Search

Error-resilient video coding in the ISO **MPEG-4** standard - all 4 versions »

R Talluri, TI Inc - Communications Magazine, IEEE, 1998 - ieeexplore.ieee.org

... Some data recovery techniques such as reversible **decoding** enable the ... terms part, which describes how the **audio**, video, text ... **MPEG-4** provides a similar **method** of ...

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Fast requantization apparatus and **method** for **MPEG** **audio** **decoding** - all 3 versions »

K Hong - US Patent 5,893,066, 1999 - freepatentsonline.com

... Title: Fast requantization apparatus and **method** for **MPEG** **audio** **decoding**.

Document Type and Number: United States Patent 5893066. Link ...

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MPEG **audio** synchronization system using subframe skip and repeat - all 5 versions »

G Maturi, G Dierke - US Patent 5,588,029, 1996 - freepatentsonline.com

... need in the art for a **method** of synchronizing ... repeat the subframe if the predetermined **decoding** time is ... A typical **MPEG** **audio** frame includes 12 subframes, such ...

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MPEG **decoding** system including tag list for associating presentation time stamps with encoded data ... - all 3 versions »

G Maturi, DR Auld, D Neuman - US Patent 5,559,999, 1996 - freepatentsonline.com

... system for a Motion Picture Experts Group (**MPEG**) multiplexed **audio/video** ... a decoder, and an **video/audio** **decoding** synchronization **method** that is ...

Cited by 54 - Related Articles - Cached - Web Search

Synchronization of **audio/video** information - all 3 versions »

US Patent 5,396,497, 1995 - freepatentsonline.com

... According to ISO's **MPEG** 1 system standard (which is ... unit header (ie frame header or **audio** unit header ... In, for example, non-locked **decoding** systems, some **method** ...

Cited by 65 - Related Articles - Cached - Web Search

Method and apparatus for **audio** and **video** synchronizing in **MPEG** playback systems - all 7 versions »

MA Rosenau, D Sartain, DT Daum, JG Ort... - US Patent 5,598,352, 1997 - freepatentsonline.com

... N-bytes of packet data 173 may represent **audio** or video ... encoding **method** such as **MPEG I, MPEG II**, or ... a presentation time stamp (PTS) with a **decoding** time stamp ...

Cited by 36 - Related Articles - Cached - Web Search

Robust audio watermarking in the time domain - all 10 versions »

P Bassia, I Pitas, N Nikitaidis - Multimedia, IEEE Transactions on, 2001 - ieeexplore.ieee.org

... to test the robustness of our **method** to common ... Layers II and III of the **MPEG2 audio**

compression standard ... The watermark resists the **encoding-decoding** process as ...

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A fast audio classification from MPEG coded data - all 3 versions »

Y Nakajima, Y Lu, M Sugano, A Yoneyama, H ... - Acoustics, Speech, and Signal Processing, 1999. ICASSP'99. ..., 1999 - ieeexplore.ieee.org

... we describe a fast and accurate **audio** data classification **method** on **MPEG** ... As for the detection speed, less than 20% of **MPEG audio decoding** processing power is ...

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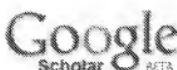
Key authors: **K Brandenburg** - **D Pan** - **P Bassia** - **M Bosi** - **L Boney**

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[A tutorial on MPEG/audio compression](#) - all 39 versions »

D Pan, M Inc, IL Schaumburg - Multimedia, IEEE, 1995 - ieeexplore.ieee.org

... Relatively simple., the filters Figure 1. **MPEG/audio compression** and decompression. (a) **MPEG/audio encoder**. (h) **MPEG/audio decoder**. ...

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[\[BOOK\] MPEG Video Compression Standard](#) - all 2 versions »

JL Mitchell - 1996 - books.google.com

... b) motion-compensated differences 10.2.1 **MPEG system structure** 18 ... 18.2.3 A system target **decoder** with two elementary bitstreams, one video and one **audio**. ...

Cited by 467 - [Related Articles](#) - [Web Search](#)

[\[PDF\] Digital Audio Compression](#) - all 47 versions »

DY Pan - Digital Technical Journal, 1993 - massmind.org

... The **MPEG/audio** standard has three distinct lay- ers ... suc- cessive layer improves the **compression** performance but ... cost of greater encoder and **decoder** com- plexity ...

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[Single chip MPEG audio decoder](#) - all 5 versions »

G Maturi - Consumer Electronics, IEEE Transactions on, 1992 - ieeexplore.ieee.org

... interface and rate control issues, rather than just the number crunching involved in **MPEG Audio compression**. The IC can provide complete **decoding** from system ...

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[An MPEG audio decoder chip](#) - all 3 versions »

TH Tsai, TH Chen, LG Chen - Consumer Electronics, IEEE Transactions on, 1995 - ieeexplore.ieee.org

... C. Abstract A single chip **MPEG audio decoder** which performs ... the compu- tation analysis of **decoder**, we develop a ... 1 Introduction Data **compression** technique is an ...

Cited by 22 - [Related Articles](#) - [Web Search](#) - [SI Direct](#)

[ISO-MPEG-1 audio: A generic standard for coding of high-quality digital audio](#) - all 3 versions »

K Brandenburg, G Stoll... - J. Audio Eng. Soc, 1994 - aes.org

... 32 Subbands ?_ Errorcheck Demultiplexingand **Decoding** of Side Information iii

Stereophonic **Audio** Signal (2 ... diagram of two-channel ISO/MPEG/Audio Layer I ...

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[ISO/IEC MPEG-2 Advanced Audio Coding](#) - all 3 versions »

M Bosi, K Brandenburg, S Quackerbush, L Fielder, K... - J. Audio Eng. Soc, 1997 - aes.org

... 804 J.Audio Eng.Soc.Vol.45,No.10,1997 ctober E , O PAPERS **MPEG-2 ADVANCED AUDIO CODING** Similarly, the TNS **decoding** process is done by inserting an ...

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[MPEG audio synchronization system using subframe skip and repeat](#) - all 5 versions »

G Maturi, G Dierke - US Patent 5,588,029, 1996 - freepatentsonline.com

... video data **compression** and transmission, and more specifically to a synchronization system for a Motion Picture Experts Group (**MPEG**) **audio/video decoder** using ...

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[Accelerating Multimedia with Enhanced Microprocessors](#) - [all 6 versions »](#)

B Ruby - 1995 - doi.ieeecomputersociety.org

... 6.. Maximum **MPEG** video **decode** performance for input file cats.**mpg** (352×240 ... These are frame decompression rates for **MPEG** video only (no **audio**) with no ...

Cited by 104 - [Related Articles](#) - [Web Search](#) - [Pt. Direct](#)

[\[BOOK\] Image and Video Compression Standards: Algorithms and Architectures](#) - [all 2 versions »](#)

V Bhaskaran, K Konstantinides - 1997 - books.google.com

... 356 15.6 To Probe Further 358 16 STANDARDS FOR **AUDIO COMPRESSION** 359 16.1 ... Perceptual Coders 362 16.4 **MPEG Audio** Encoding 364 16.5 **MPEG Audio Decoding** 370 16.6 ...

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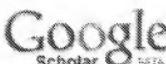
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[Low bit rate transparent audio compression using adapted wavelets - all 3 versions »](#)

D Sirina, AH Tewlik - Signal Processing, IEEE Transactions on [see also Acoustics, ... 1993 - [ieeexplore.ieee.org](#)

... IEEE Low Bit Rate Transparent **Audio Compression** using Adapted ... a novel wavelet based audio synthesis and ... and transform coefficient bit **allocation** procedures are ...

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[\(PDF\) Non-invertible watermarking methods for MPEG encoded audio - all 9 versions »](#)

L Gao, K Nahrstedt - Proceedings of the SPIE - historical.nist.gov

... The **MPEGAudio** stream consists of **audio** frames ... Both **MPEG audio** watermark schemes are simple extensions of the ... **Audio Clip Type Sampling Frame** Size Total Playing Bit ...

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[\(PDF\) Digital Watermarking for MPEG Audio Layer 2](#)

J Dittmann, M Steinbach, R Steinmetz - Multimedia and Security - [wwwiti.cs.uni-magdeburg.de](#)

... is not robust against de-and re-**compression** and may ... are extracted: Figure 1: Scale factor location in **MPEG-Stream** In ... to embed data in a Layer 3 **audio** stream we ...

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[MPEG: a video compression standard for multimedia applications - all 6 versions »](#)

D Le Gall - Communications of the ACM, 1991 - [portal.acm.org](#)

... 9 Video codec for **audio** visual: services at ... Shi , Bharat Bhargava, A fast **MPEG** video encryption ... Yair Mann , Shachar Fleishman, Deep **compression** for streaming ...

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[\(BOOK\) Digital Television: MPEG-1, MPEG-2 and Principles of the DVB System - all 3 versions »](#)

H Benoit - 2002 - [books.google.com](#)

... the discrete cosine transform (DCT) 28.3.3 **Compression** of fixed pictures 31 3.4

Compression of moving pictures (MPEG) 34.3.5 **Compression** of **audio** signals 48 4 ...

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[Sound analysis using MPEG compressed audio - all 9 versions »](#)

G Tzanetakis, F Cook - Acoustics, Speech, and Signal Processing, 2000. ICASSP'00. ..., 2000 - [ieeexplore.ieee.org](#)

... offer different trade-offs between com- plexity and **compression** ratio, ... **bit allocation** information ... scheme that operates di- rectly on **MPEG audio** compressed data ...

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[Determining a masking level for a subband in a subband **audio** encoder - all 4 versions »](#)

JL Fiocca - US Patent 5,625,743, 1997 - [freepatentsonline.com](#)

... psychoacoustic unit (804), the desired **compression** ratio, and ... to produce a bit **allocation table** that assigns ... be implemented in accordance with **MPEG audio** by a ...

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[Direct manipulation of MPEG compressed digital **audio** - all 2 versions »](#)

MA Broadhead, CB Owen - Proceedings of the third ACM international conference on ..., 1995 - [portal.acm.org](#)

... The **bit allocation** is determined by the psychoacoustic model and the available bit pool. ... Introduction to **MPEG Digital Audio Compression**. Table of Contents. ...

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[Digital **Audio** Broadcasting - all 3 versions »](#)

W Hoeg, TLauterbach - Principles and, 2001 - [doi.wiley.com](#)

... as Senior Systems Designer on **audio compression** systems and ... M-PAD Motion PAD **MPEG**

Moving Pictures ... NICAM Near Instantaneously Companded **Audio** Multiplex NRSC ...

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Scalable and progressive audio codec - all 3 versions >

MS Vinton, LE Atlas - Acoustics, Speech, and Signal Processing, 2001. Proceedings. ..., 2001 - ieeexplore.ieee.org ... which is implemented via **table** lookup, taking ... or computationally intense bit **allocation** recursions as ... A Tutorial on **MPEG/Audio Compression**," IEEE Multimedia ...

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Key authors: **K Brandenburg** · **D Pan** · **J Mitchell** · **D Le Gall** · **B Haskell**



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subband coding row

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M Vetterli, J Kovacevic - 1995 - infoscience.epfl.ch

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Multirate 3-D subband coding of video - all 5 versions »

D Taubman, A Zakhor - Image Processing, IEEE Transactions on, 1994 - ieeexplore.ieee.org

... Separable spatial **sub-band** techniques were first applied to images by Woods [15].Spatial **subband coding** allows for exploitation of both the statistical and ...

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Three-dimensional subband coding with motion compensation - all 6 versions »

JR Ohm - Image Processing, IEEE Transactions on, 1994 - ieeexplore.ieee.org

... in temporal-axis block transform **coding**: (a) Homogeneous ... the explanations about motion-compensated **subband** analysis and ... component c, with column, **row** and frame ...

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Lapped transforms for efficient transform/subband coding** - all 2 versions »**

HS Malvar - Acoustics, Speech, and Signal Processing [see also IEEE ..., 1990 - ieeexplore.ieee.org

... of a matrix A in the rth **row** and kth ... where features are de-tected from the **subband** signals. ... In a speech **coding** application, for example, the computa-tion of ...

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Three-dimensional subband coding of video - all 5 versions »

CI Podilchuk, NS Jayant, N Farvardin - Image Processing, IEEE Transactions on, 1995 - ieeexplore.ieee.org

... reconstruction, filter design that is tailored for image **coding** and perceptual ... 3.Template for **subband** display ... image sequence in the lth frame, ith **row**, and jth ...

Cited by 156 - Related Articles - Web Search

Truncated subband coding of images - all 3 versions »

US Patent 4,817,182, 1989 - freepatentsonline.com

... decoder apparatus for decoding a sixteen-**subband coding** of image ... Woods and O'Neil tree **coding** apparatus, exist ... spatial-filtering kernels in the **row** and column ...

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A stability criterion for biorthogonal wavelet bases and their related subband coding scheme - all 3 versions »

A Cohen, I Daubechies - Duke Math. J., 1992 - projecteuclid.org

... A STABILITY CRITERION FOR BIORTHOGONAL WAVELET BASES AND THEIR RELATED **SUBBAND CODING SCHEME** ALBERT COHEN AND INGRID DAUBECHIES Introduction. ...

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[A new, fast, and efficient image codec based on set partitioning in hierarchical trees - all 26 versions](#) ↗

A Said, WA Pearlman - Circuits and Systems for Video Technology, IEEE Transactions ..., 1996 - ieeexplore.ieee.org
... where $R(\cdot)$ represents a unitary hierarchical **subband** transformation (eg, [4 ... 2, j] ...). For the purpose of **coding**, we assume that ... BIT ROW sim ||||||| msb ...

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[Analysis/synthesis techniques for subband image coding - all 4 versions](#) ↗

MJT Smith, SL Eddins - Acoustics, Speech, and Signal Processing [see also IEEE ..., 1990 - ieeexplore.ieee.org
... basis for most of the **sub-band** image **coding** ... system contribute more perceptibly to **coding** distortion. ... approach to splitting and merging **subband** images results ...

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Subband coding of images with octave band tree structures

M Smith, S Eddins - Acoustics, Speech, and Signal Processing, IEEE International ..., 1987 - ieeexplore.ieee.org
... two subimages and then merging the **rows** of these ... M. Vetterli, "Multi-dimensional **sub-band coding**: Some theory and ... and S. O'Neil, "**Subband coding of images** ...

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